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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------------------------------------------------------------------------|-------------|----------------------|----------------------|------------------|
| 10/722,749 | 11/26/2003 | Hon-Sum P. Wong | YOR920030513US1 | 7287 |
| 7590 | 03/02/2006 | | EXAMINER | |
| Moser, Patterson & Sheridan Suite 100 595 Shrewsbury Avenue Shrewsbury, NJ 07702 | | | MONBLEAU, DAVIENNE N | |
| | | | ART UNIT | PAPER NUMBER |
| | | | | 2878 |

DATE MAILED: 03/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

B7

| | | |
|-----------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|
| Advisory Action Before the Filing of an Appeal Brief | Application No. | Applicant(s) |
| | 10/722,749 Examiner Davienne Monbleau | WONG, HON-SUM P. Art Unit 2878 |

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

THE REPLY FILED 21 February 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- The period for reply expires 3 months from the mailing date of the final rejection.
- The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because

- They raise new issues that would require further consideration and/or search (see NOTE below);
- They raise the issue of new matter (see NOTE below);
- They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

- The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
- Applicant's reply has overcome the following rejection(s): _____.
- Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
- For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 1,3-11 and 13-17.

Claim(s) withdrawn from consideration: 18-20.

AFFIDAVIT OR OTHER EVIDENCE

- The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
- The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
- The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

- The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.
- Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper No(s). _____.
- Other: _____.


Stephone B. Allen
Primary Examiner


Davienne Monbleau

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments are not persuasivie.

Applicant makes the following arguments:

- A. Merrill does not teach maximizing the electric charge produced in each color sensor.
- B. Merrill does not teach placing a color reflector between a semiconductor substrate and the stack of color sensors.
- C. Merrill teaches away from placing a color reflector between a semiconductor substrate and the stack of color sensors because the reference 1) is completely devoid of any explicit teaching relating to the need or desirability for such a configuration and 2) goes out of its way to teach partially reflective filters positioned between color sensor pairs but not between the final sensor and the substrate.

The Examiner makes the following responses:

Regarding argument A, this is not persuasive because, as the Examiner stated in the Interview Summary (dated 2/8/06), Merrill does teach (column 17, lines 35-37) the advantage of using the partial filters to reflect photons back through any sensors above them, which gives them a second chance to be absorbed (i.e. maximizing the electric charge produced in each sensor).

Regarding argument B, this is not persuasible because although Merrill does not explicitly teach place a reflector between the final sensor and the substrate, it does not render doing so non-obvious in light of Merrill's teaching of incident light passing through the sensor twice (column 17, lines 35-37) and the knowledge of one of ordinary skill in the art. For example, in support of the Examiner's statement that it would have been obvious to do so at the time of the invention, Yoneda et al. (U.S. 6,831,265) also teaches (Figure 13) the advantage of having incident light pass through the absorption layer twice to maximize the detection signal. This concept is well established in the art.

Regarding argument C, please refer to the interview summary (dated 2/8/06) which specifically refers to these arguments.